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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,684	01/28/2004	Nabil L. Muhanna	126013-1003	2069
STEVEN E. ROSS, IP SECTION KENNETH T. EMANUELSON			EXAMINER	
			SNOW, BRUCE EDWARD	
GARDERE WYNNE SEWELL LLP 1601 ELM STREET, SUITE 3000			ART UNIT	PAPER NUMBER
DALLAS, TX			3738	
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			06/12/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/766,684	MUHANNA ET AL.
Office Action Summary	Examiner	Art Unit
	Bruce E. Snow	3738
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statur Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>02 </u> This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 19 and 21-42 is/are pending in the a 4a) Of the above claim(s) 33 and 37-41 is/are 5) Claim(s) is/are allowed. 6) Claim(s) 19, 21-32, 34-36,42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin	withdrawn from consideration. for election requirement.	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 9/8/08 have been fully considered. Regarding the rejection under 35 U.S.C. 102(b) as being anticipated by Burkinshaw (6,602,292), note that the second surface is now interpreted as surface 46 which is fully capable of being cemented to a bone. Again, It is the Examiner's position that the device of Burkinshaw is sized and configured and fully capable of being used in the disc. MPEP 2114 teaches: A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim.

Regarding the rejection under 35 U.S.C. 102(b) as being anticipated by Giannestras et al (3,872,519), the articulating surface is not hyperbolic paraboloid, therefore the rejection has been withdrawn.

Regarding the rejection under 35 U.S.C. 102(b) as being anticipated by Shelokov (6,039,763), the Examiner's position has been incorporated into the grounds of rejection below.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir.

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1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 19, 21-32, 34-36, 42 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 19-36 of copending Application No. 11/648,384. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented. Although the conflicting claims are not identical, they are not patentably distinct from each other because are a broader language for the same device:

(NEW) A prosthetic disc comprising:

a disc body, having a first surface that is a concave-convex articulating surface and a second surface as a base adapted for fixation to a first bone surface.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 19, 21-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Burkinshaw (6,602,292).

Burkinshaw teaches a prosthetic disc comprising:

a disc body 30 having a first surface 44 that is a concave-convex articulating surface and a second surface 46 as a base <u>adapted</u> for fixation to a first bone surface, wherein the concave-convex articulating surface is hyperbolic paraboloid (see 4:8).

Regarding the base surface 46, note that the non-flat surface configuration including elements such as 52 and 54 shown in figure 10, would act as an anchor point

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for bone cement fixation. Therefore, the articulating surface and second surface are relatively fixed.

Claim 24, it is possibly that the disc body was made of separate components connected together. This claim has been interpreted as a product by process limitation which fails to differentiate.

Claims 26-28, see 5:48 et seq.

Claim 29 is functional language only.

Claim 30, fully capable of.

Claim 34 is not positively claiming the second body.

Regarding claim 42, "has a hyperbolic paraboloid shape" is interpreted as being broader and does not limit explicitly to being a hyperbolic paraboloid.

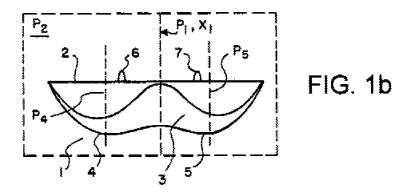
Claims 19, 21-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Shelokov (6,039,763).

Shelokov teaches a prosthetic disc comprising:

a first and second disc bodies 1, 10 having complimentary saddle shaped articulating surfaces each surface being one of concave and convex in a first plane and the other of concave and convex in a perpendicular plane to the first. Shelokov teaches, "the articulating surfaces (3,12) can be regularly or irregularly shaped as at least partially complementary portions of.. paraboloids (6:51 et seq.)."

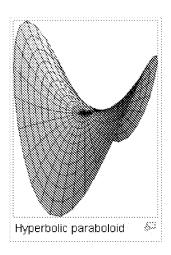
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Wikipedia teaches, "In <u>mathematics</u>, a **paraboloid** is a <u>quadric surface</u> of special kind.

There are two kinds of paraboloids: **elliptic** and **hyperbolic**."



Referring to the first and second disc bodies of Shelokov, the articulating surface 3, 12 are a clearly a hyperbolic paraboloid shape and not an elliptic paraboloid. As quoted above, the surfaces can be <u>regular</u> shape paraboloids which are hyperbolic as taught from the drawings. Hyperbolic paraboloids are inherently concave-convex.

Regarding claim 1, "wherein the single articulating surface is hyperbolic paraboloid", this language and/or opened ended transistionary phrase "comprising" does not exclude the articulating surface having additional shapes.

Note that the second surface 2 of body 1 is fixed relative to the articulating surface 3.

Regarding claim 31, "wherein the superior articulating surface has a single hyperbolic paraboloid shape", the articulating surface is interpreted as having only one hyperbolic paraboloid shape.

Regarding claim 42, "the superior articulating surface has a single shape characterized as a hyperbolic paraboloid", the single shape of portions 3, 12 is a hyperbolic paraboloid.

Regarding claims 24-27, see at least 9:47 et seq. teaching at least coatings.

Claims 19, 21-32, 34-36, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Linscheid et al (5,405,400).

Linscheid et al teaches:

A joint prosthetic comprising a disc body 14 having a first articulating surface 32 which is a hyperbolic paraboloid shape (see 3:56) and second surface which is relatively fixed.

All other limitations are self-evident.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce E. Snow whose telephone number is (571) 272-4759. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bruce E Snow/
Primary Examiner, Art Unit 3738